WHAT IS CLAIMED IS:

1. A resource management method for managing resources in a label switching network, comprising:

retaining a bandwidth of an on-reservation session

5 and a bandwidth of an on-communication session; and

executing periodical re-setting of a path with respect to the bandwidth occupied by the on-reservation session.

10 2. A resource management method in a label switching network according to claim 1, further comprising:

recording a failure count, for a fixed period, of a link causing a failure in a reservation request in a previous period; and

15 fluctuating a weight of the link that tends to cause the failure on the basis of a history of the failure count.

3. A resource management method in a label switching network according to claim 1, further comprising

20 fluctuating a re-setting period of the path in accordance with the reservation request failure count.

4. A reservation path optimization system for optimizing a reservation path between specified nodes

25 configuring a network, comprising:

a reservation path setting module for setting the reservation path and a bandwidth for establishing a

predetermined session between specified nodes; and

a reservation path re-setting module for periodically re-setting the reservation path on the basis of the bandwidth set by said reservation path setting

5 module.

5. A reservation path optimization system for optimizing a reservation path between specified nodes configuring a label switching network, comprising:

10 a reservation path setting module for setting the reservation path and a bandwidth for establishing a predetermined session between specified nodes; and

a reservation path re-setting module for re-setting the reservation path set by said reservation path setting

15 module.

6. A reservation path optimization system according to claim 5, the reservation path re-setting module periodically re-sets the reservation path on the basis

20 of the bandwidth set by said reservation path setting module.

7. A reservation path optimization system according to claim 5, the reservation path re-setting module periodically re-sets the reservation path on the basis

25 of specified algorithm

8. A reservation path optimization system according

to claim 4, further comprising a module for fluctuating the period.

9. A reservation path optimization system according to claim 4 or 5, wherein the label switching network is an MPLS network, and

the reservation path is Label Switched Path.

10. A reservation path optimization method for optimizing a reservation path between specified nodes configuring a network, comprising:

setting the reservation path and a bandwidth for establishing a predetermined session between specified nodes; and

periodically re-setting the reservation path on the basis of the bandwidth set by said reservation path setting.